

FIG. 1

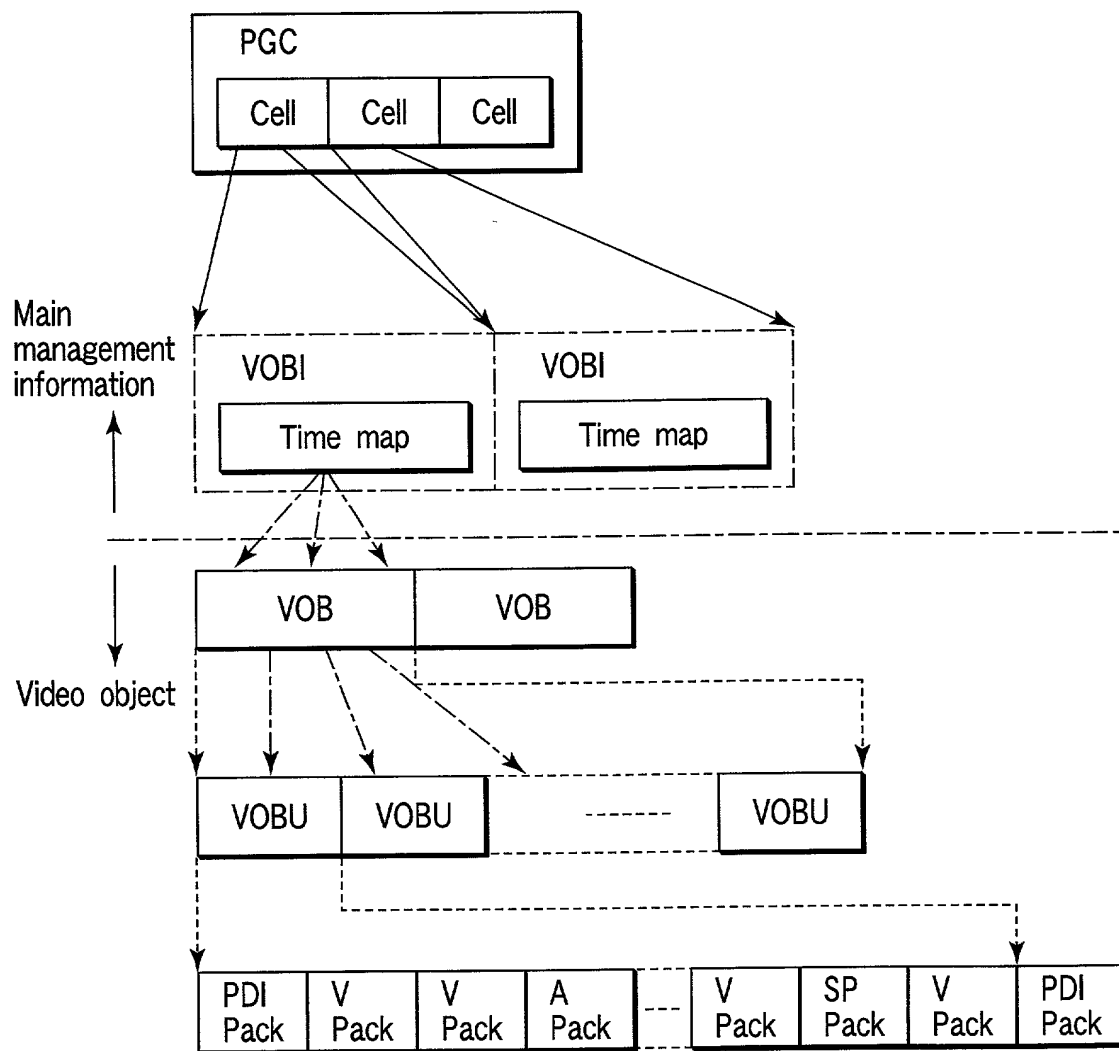


FIG. 2

FIG. 3A

RDI_GI	Real time data and general information
DCI_CCI	Display control information and copy control information
MNFI	Manufacturer's information

FIG. 3B

Reserved	
VOBU_S_RTM	VOBU presentation start time
Reserved	
VOBU_REC_TM	Recording time of VOB

FIG. 3C

DCI : display control information			
Aspect ratio 4b	Subtitling mode 2b	Reserved 1b	Film camera mode 1b

FIG. 3D

CCI : copy control information			
CGMS 2b	APSTB 2b	Source 1b	Reserved 3b

20230920 09:56:00

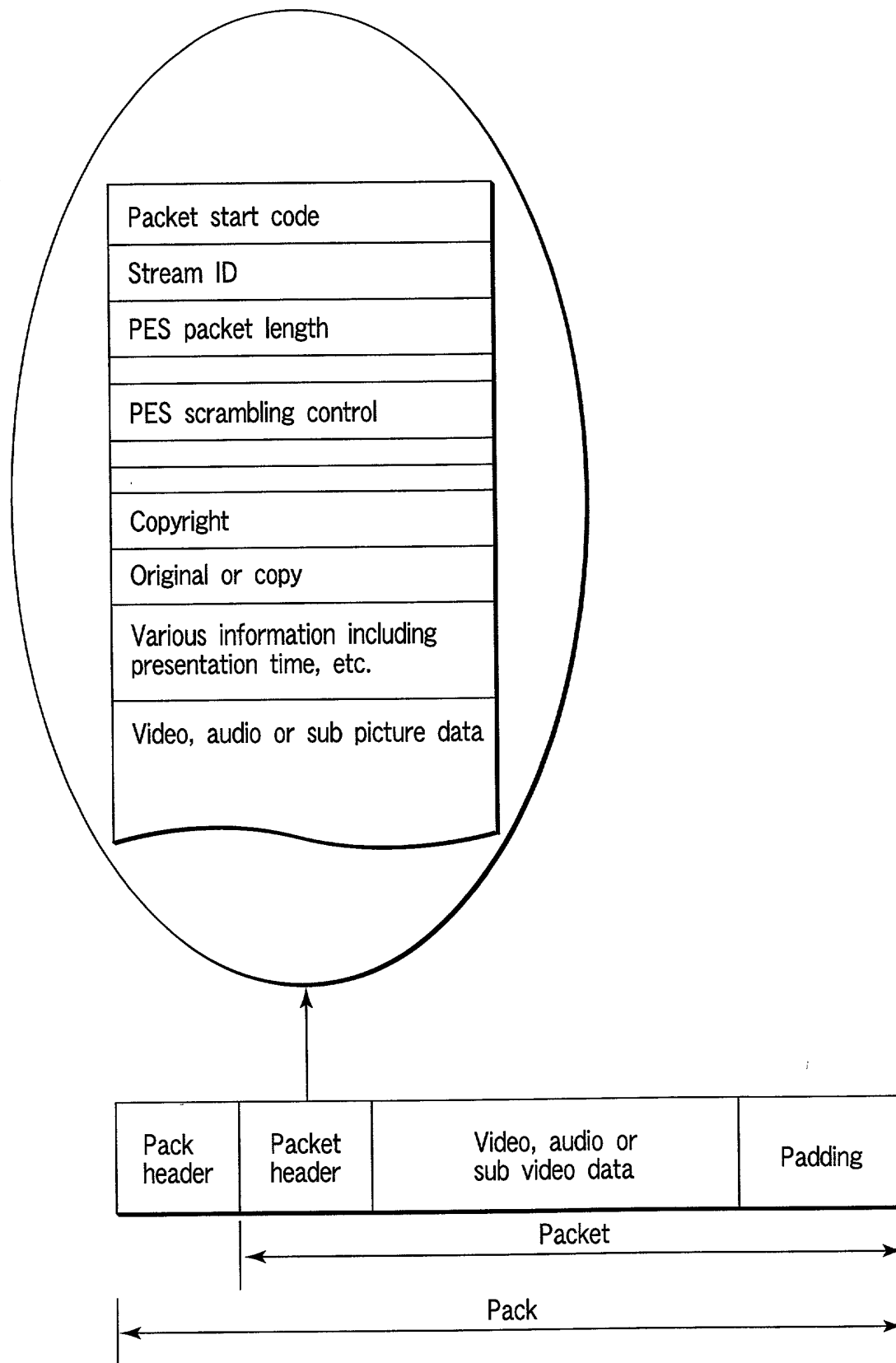


FIG. 4

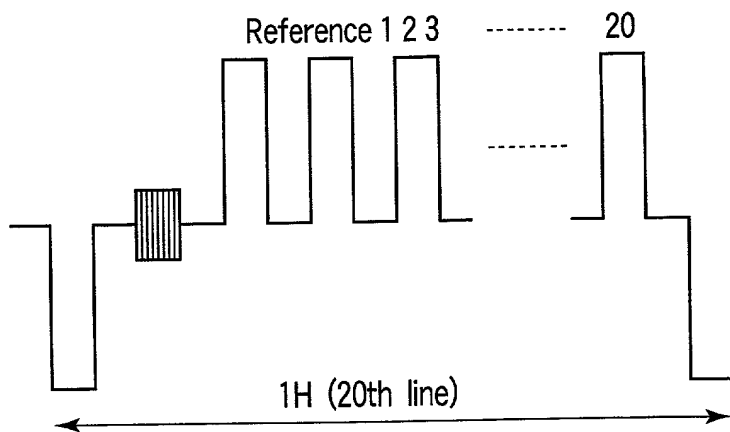


FIG. 5A

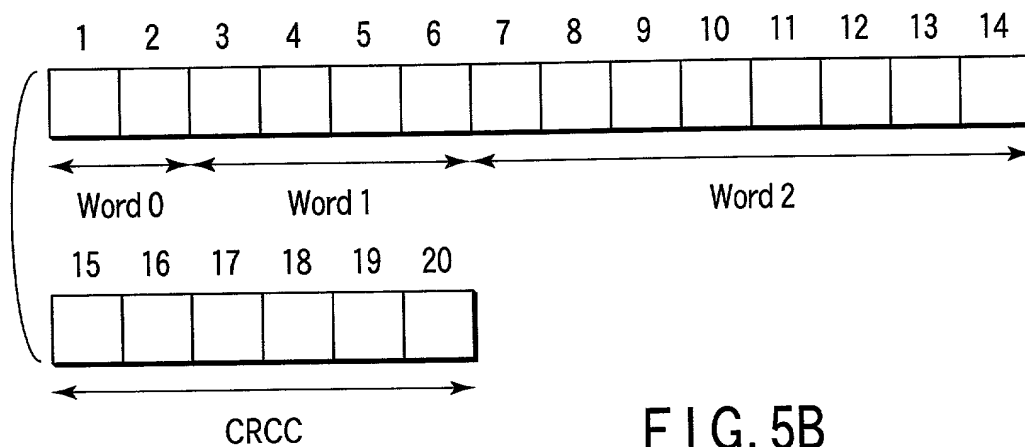


FIG. 5B

CGMS 7, 8	Definition	Recording rule
0, 0	Copying authorized unconditionally	CGMS of recording medium is recorded as (0, 0)
0, 1	Not in use	-----
1, 0	Copying authorized in a generation	CGMS of recording medium is recorded as (1, 1)
1, 1	Copying prohibited	Nothing is recorded

FIG. 5C

FIG. 6

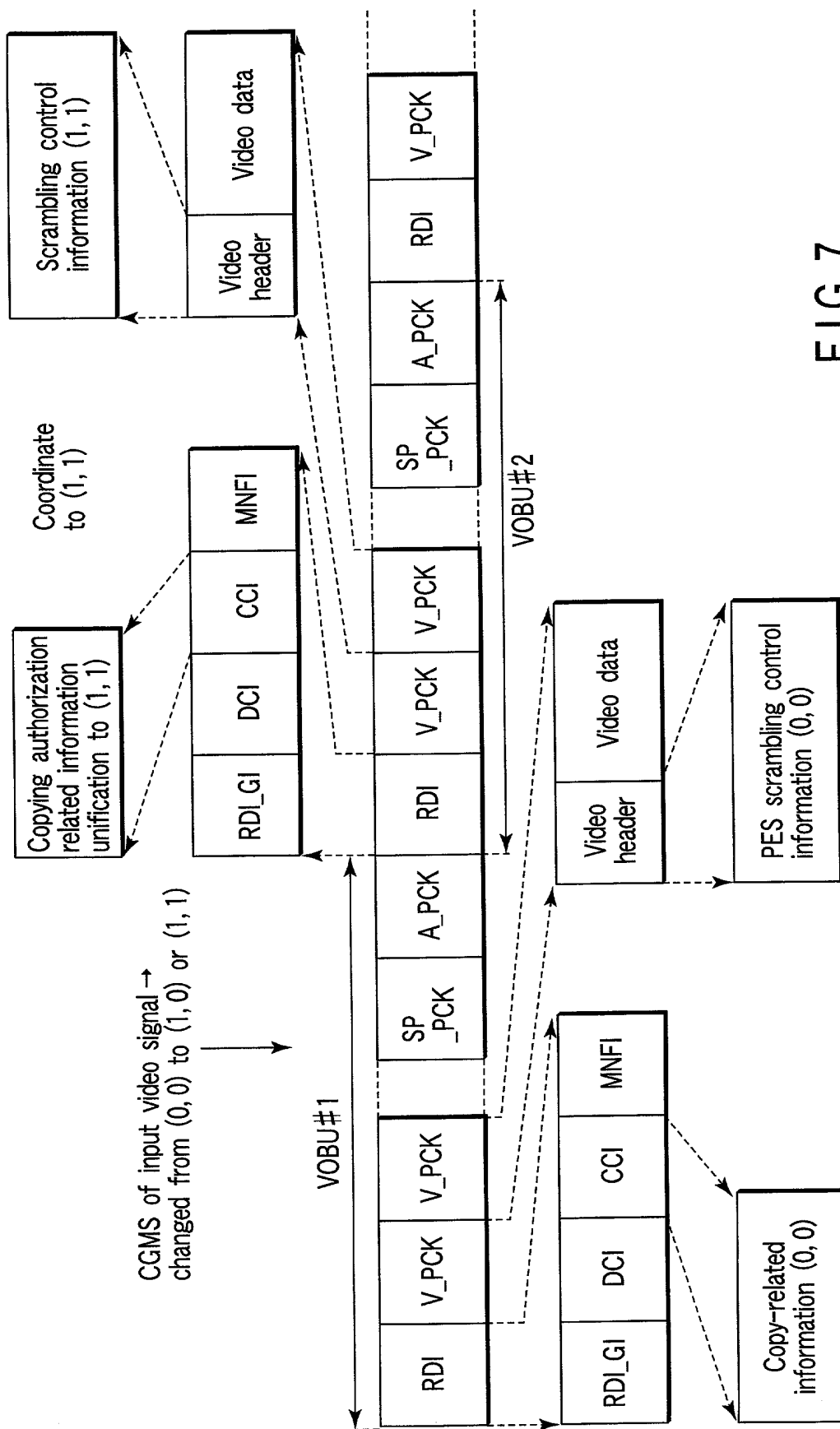


FIG. 7

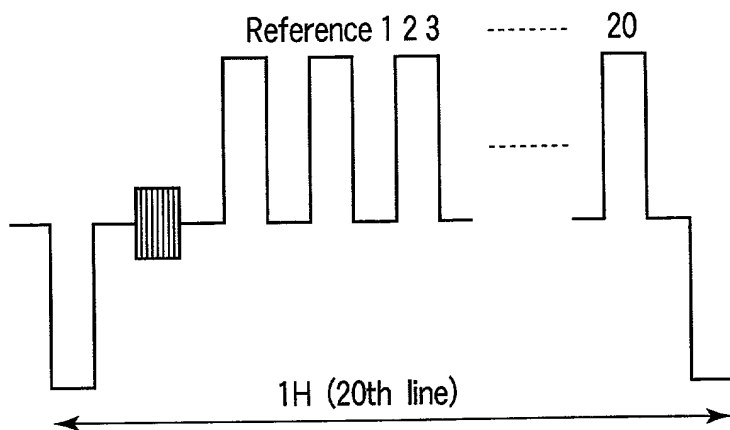


FIG. 8A

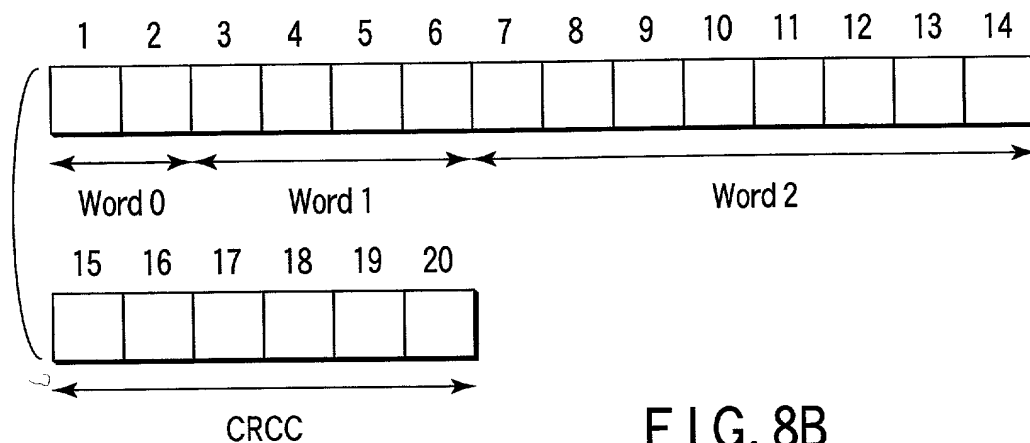


FIG. 8B

Word 0	Definition
0, 0	No signal and information for image with aspect ratio of 4 : 3
0, 1	Squeeze signal for image with aspect ratio of 16 : 9
1, 0	Letter box signal with aspect ratio of 14 : 3
1, 1	Not in use at the moment

FIG. 8C

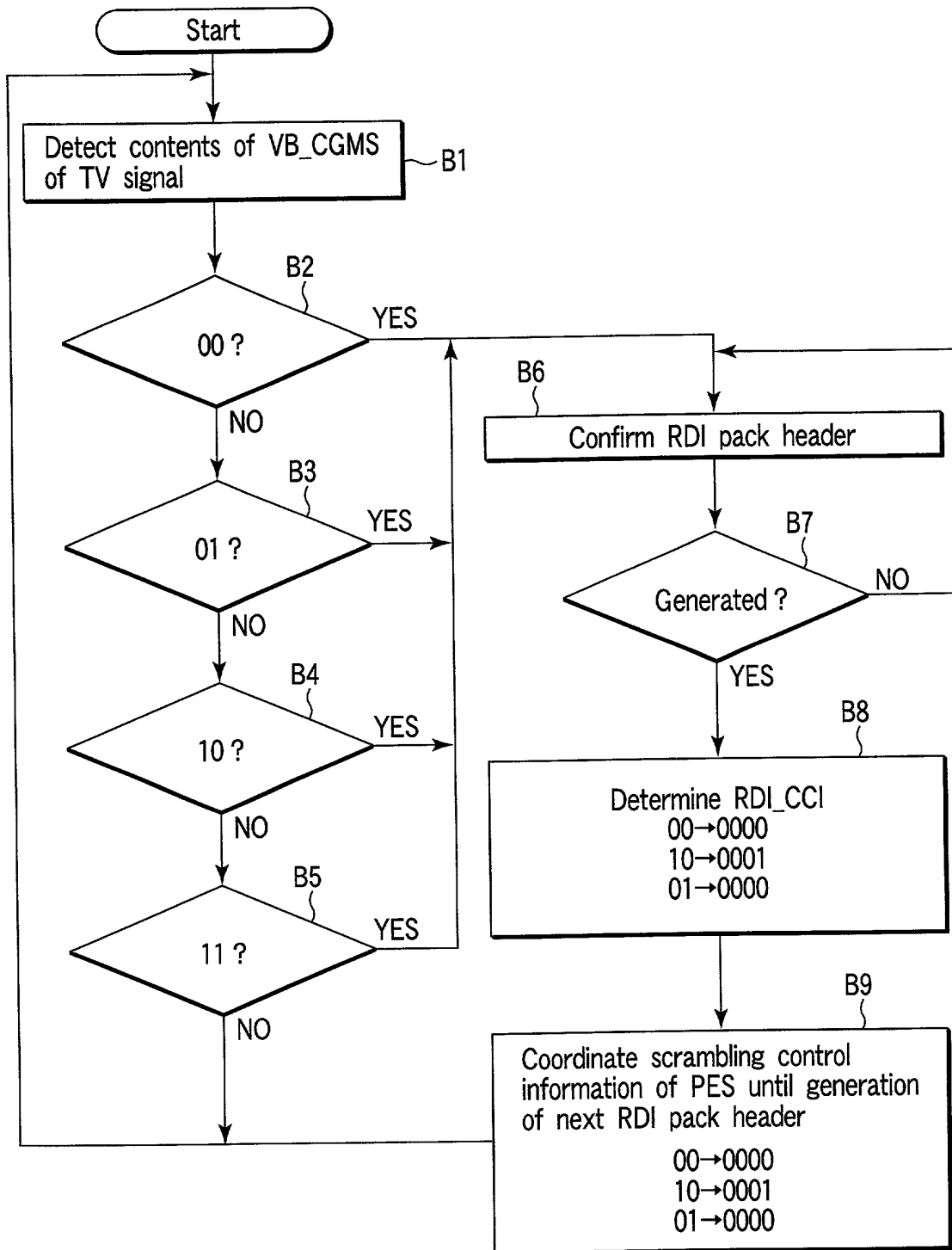


FIG. 9

Route

DVD_RTAV

VR_MANGR.IFO

VR_MOVIE.VRO

VR_STILL_VRO

VR_AUDIO.VRO

VR_MANGR.BUP

FIG. 11

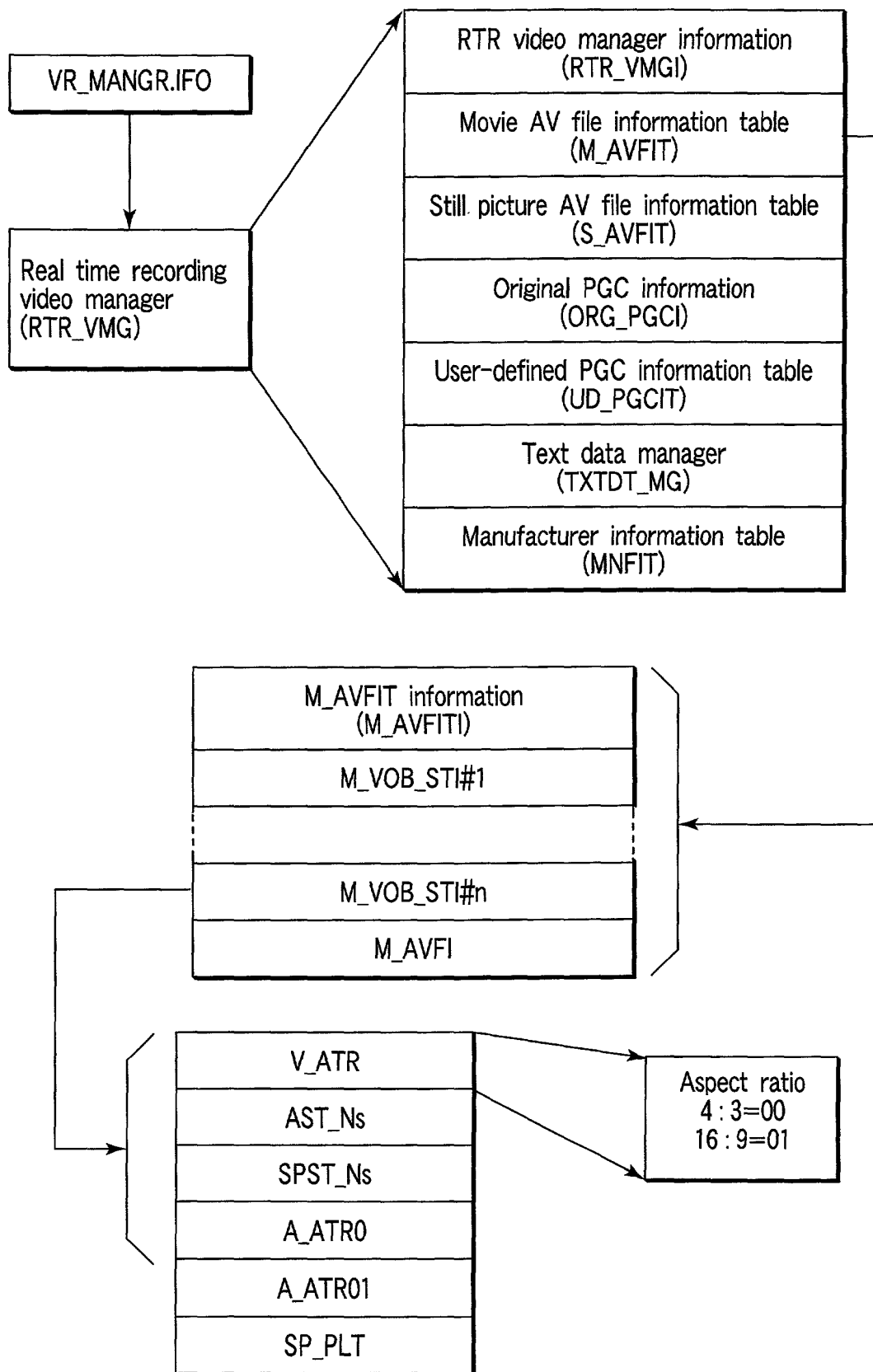


FIG. 12

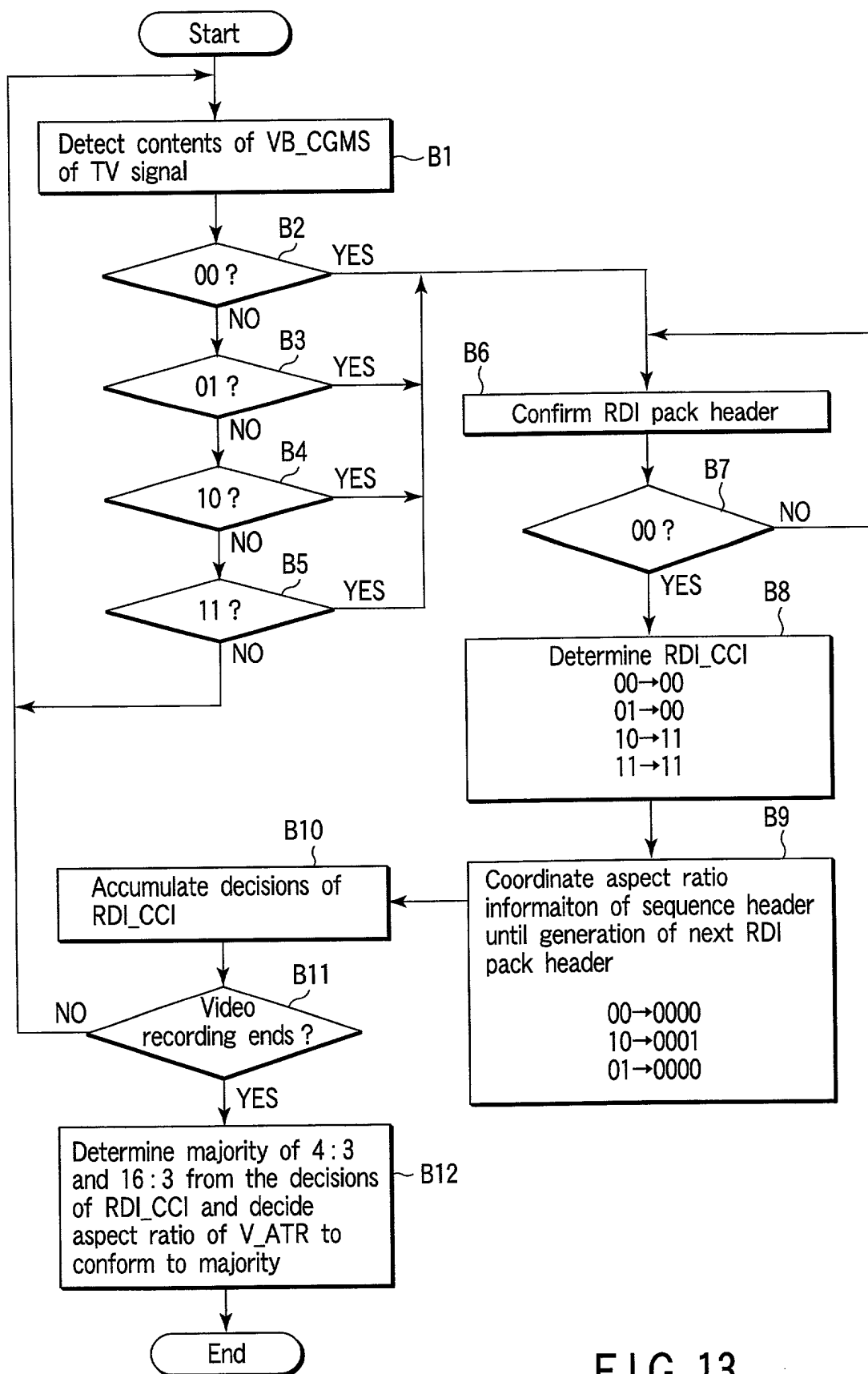


FIG. 13

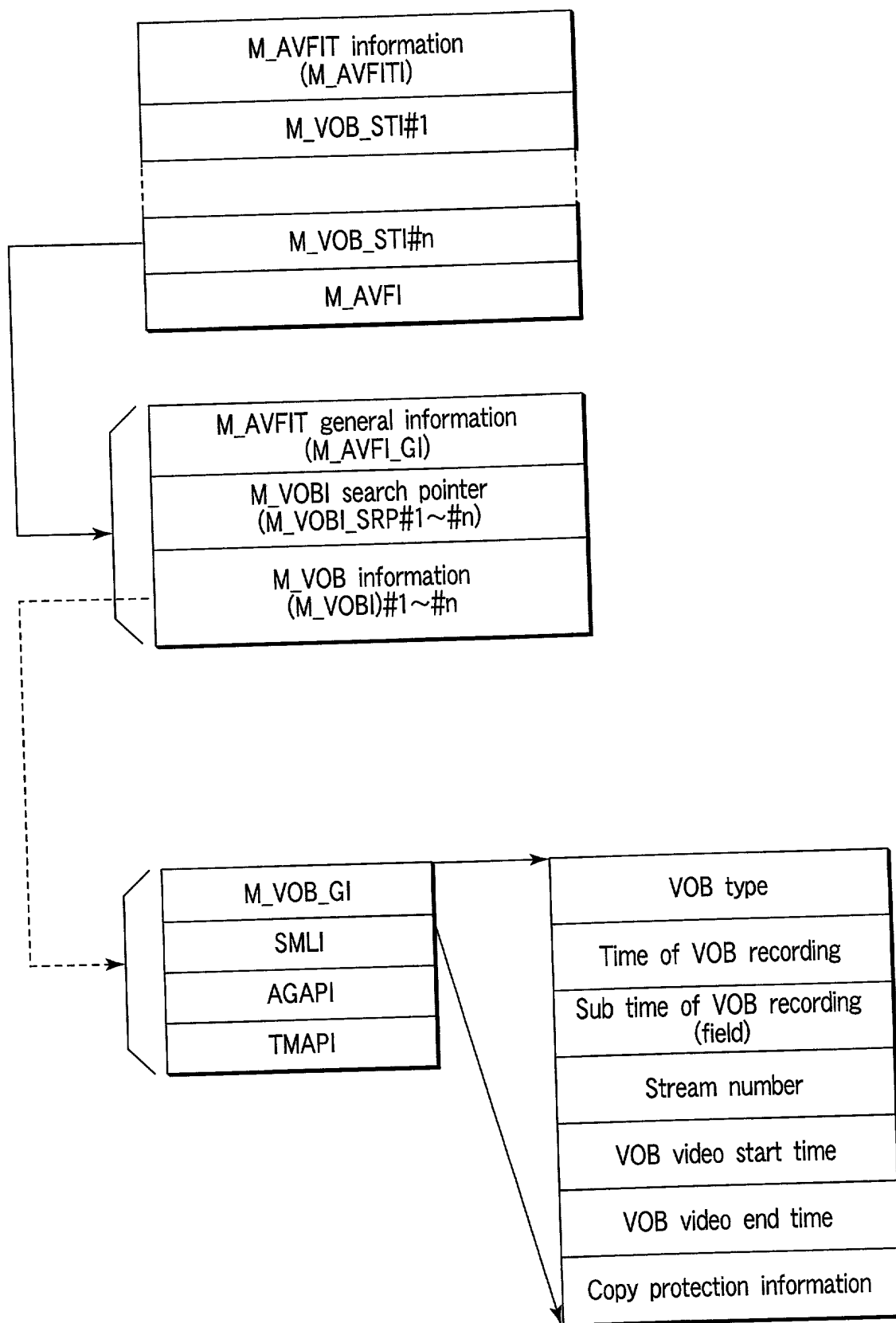


FIG. 14

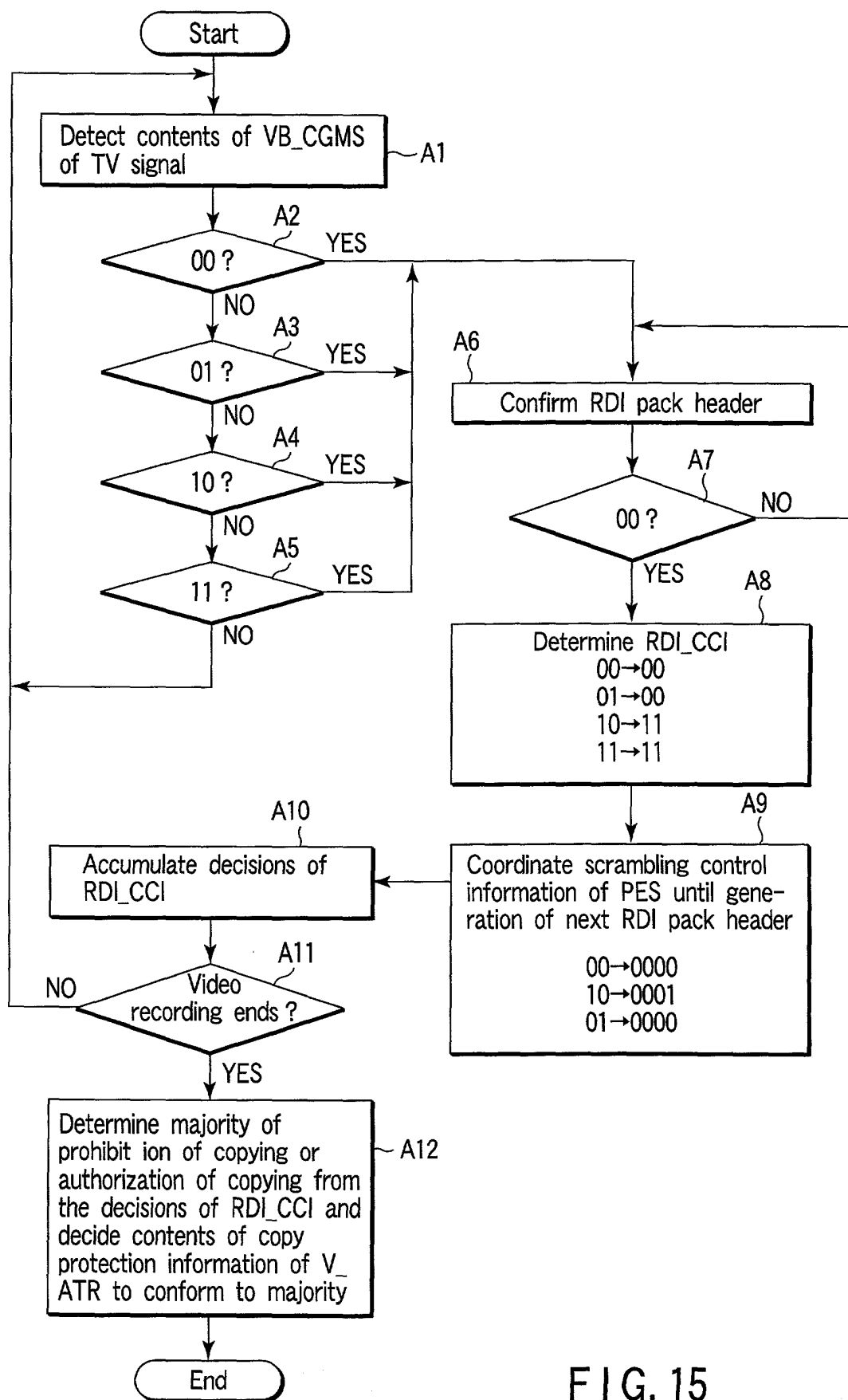


FIG. 15

File configuration

LBN	Descriptor
0~140	Space bit map
141	
142	
143	File entry (route directory)
144	
145	File entry (DVD_RTAV)
146	File identifier descriptor
	File identifier descriptor (VR_MANGR.IFO)
	File identifier descriptor (VR_MANGR.BUP)
	File identifier descriptor (VR_MOVIE.VRO)
	File identifier descriptor (VR_STILL.VRO)
	File identifier descriptor (VR_AUDIO.VRO)
147	File entry (VR_MANGR.IFO)
148	File entry (VR_MANGR.BUP)
149	File entry (VR_MOVIE.VRO)
150	File entry (VR_STILL.VRO)
151	File entry (VR_AUDIO.VRO)

FIG. 16

10082356-022602

File entry

Byte position	Length (bytes)	Field name
0	16	
16	20	
176	L_EA	Extended attribute
a	L_AD	Allocation descriptor

Relative byte position	Length (bytes)	Field name
0	2	Header check SAM
2	1	CGMS information
3	1	Data structure type
4	4	Protection system information

Bit	Description
0-3	Reserved
4-5	CGMS
6	Reserved
7	Copyright material

0 : copying authorized
 1 : not in use
 2 : copying authorized for once
 3 : copying prohibited

FIG. 17

```

graph TD
    Start([Start]) --> C1{More than one VOBs?}
    C1 -- YES --> C2[Store temporarily contents of copy protection information of V_ATR of each VOB in storage section]
    C1 -- NO --> C4[Write copy protection information of the VOB directly to CGMS of file system]
    C2 --> C3{Prohibition of copying and authorization of copying coexist?}
    C3 -- YES --> C5[Rearrange CGMS of file system so as to authorize copying]
    C3 -- NO --> C4
    C5 --> End([End])
    C4 --> End
  
```

FIG. 18